

United States Patent [19]

omicu States I atem [19

May 24, 1994

Related U.S. Application Data

Continuation of Ser. No. 966,734, Oct. 26, 1992, abandoned.

Field of Search 340/710, 706,

340/825.69; 340/825.72; 359/148; 359/142

142, 143, 145; 345/156, 157, 158, 169,

162, 166, 163; 348/734

340/825.69, 825.72; 358/194.1, 335; 359/148,

Frank

[21] Appl. No.: 248,578

Filed:

U.S. Cl.

[22]

[52]

[56]

[11] Patent Number:

5,457,478

[45] Date of Patent:

Oct. 10, 1995

[54]	CONTRO	L DEVICE	5,075,558	12/1991	Nakagawa 340/710
[75]	Inventor:	Edward H. Frank, Portola Valley,	5,081,534	8/1989	Geiger et al
[,5]	m vontor.	Calif.	5,109,482	4/1992	Bohrman 395/154
[73]	Assignee:	FirstPerson, Inc., Mountain View, Calif.	5,146,210	9/1992	Keiji
			5,204,768	4/1993	Tsakiris et al 358/194.1

Primary Examiner—Tommy P. Chin Assistant Examiner—A. Au Attorney, Agent, or Firm—Irell & Manella

[57]

A control device method and apparatus has application for use in multi-media systems. The multi-media system contains a host computer having a video display, a control device and at least one target device. The target device is any remotely controlled equipment that the user wishes to integrate into the multi-media system. The host computer contains a host system configuration which provides the user the ability to select an operating mode for the control device. The control device operates as an interactive user interface to control a cursor on the host computer video display when the control device is placed in the cursor control mode. The user selects a remote control mode to remotely control the target devices using the control device. The host system configuration also includes learn and computer networking modes. In the learn mode, control data information is entered into the host system configuration for new target devices. In the computer networking mode, the control device operates as a network interface allowing other similarly equipped computers to communicate with the host computer.

ABSTRACT

References Cited

U.S. PATENT DOCUMENTS

4,521,772	1/1983	Lyon 3	40/710
4,623,887		Welles, II 340/	
4,751,505	6/1986	Williams et al 3	40/710
4,796,019	1/1989	Auerbach 3	45/169
4,807,052	2/1989	Amano 340/	825.72
4,825,209	4/1989	Sasaki et al 340/	825.72
4,859,995	8/1989	Hansen et al 3	40/710
4,880,967	11/1989	Kwang-Chien 3	40/710
4,935,619	6/1990	Heberle 3	40/710
5,028,919	7/1991	Hidaka 340/	825.69

18 Claims, 8 Drawing Sheets

